

Slavomír Hanzely

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SCRIPT TEST

EDUCATION

King Abdullah University of Science and Technology, Saudi Arabia

Applied Mathematics and Computational Sciences, Ph.D. 2020 – present

I work on Optimization for Machine Learning (Stochastic Optimization, Distributed Optimization, Federated Learning); under the supervision of [Peter Richtárik](#).

I am organizing research group seminar.

King Abdullah University of Science and Technology, Saudi Arabia

Applied Mathematics and Computational Sciences, MSc. 2019 – 2020

Relevant courses that I passed: Special Topics in Data Sciences, Special Topics in Machine Learning, Special Topics in Federated Learning, Combinatorial Machine Learning, Probability and Statistics, Advanced Probability, Stochastic Processes, Contemporary Topics in Signal Processing.

Comenius University, Slovakia, Computer Science, BSc.

2016 – 2019

I enrolled superfluous amount of courses – only in 1st year I got 95 credits (recommended amount is 60), including master's courses. Until graduation, I passed 7 Master courses¹ and I unofficially attended (due to exceeding the maximal number of credits) 8 extra courses².

Passed all BSc. finals with best grades.

RESEARCH

- Optimization Algorithms for Model-Agnostic Meta-Learning and Personalized Federated Learning, K. Mishchenko, S. Hanzely, P. Richtárik, 2021
- ZeroSARAH: Efficient Nonconvex Finite-Sum Optimization with Zero Full Gradient Computation, Z. Li, S. Hanzely and P. Richtárik, 2021, [arXiv](#)
- Lower Bounds and Optimal Algorithms for Personalized Federated Learning, F. Hanzely, S. Hanzely, S. Horváth and P. Richtárik, [NeurIPS 2020](#), talk link [here](#)
- Adaptive Learning of the Optimal Mini-Batch Size of SGD, M. Alfarra, S. Hanzely, A. Albayoni, B. Ghanem and P. Richtárik, [NeurIPS 2020 workshop](#)

AWARDS

King Abdullah University of Science and Technology

- MSc. scholarship of USD 70,000/year
- Ph.D. scholarship of USD 75,000/year
- Dean's Award (for two best incoming students in the Ph.D. program) of USD 6,000/year

[Vojtěch Jarník International Mathematical Competition](#)

2017: **8-10th place** in category 1 (first place within Czech and Slovak contestants)

[Mathematical Olympiad](#)

¹Cryptology, Programming Languages, Probabilistic Methods, Advanced Effective Algorithms, Mathematical Analysis (3), Unstructured Talks on Structures: Chapters in Mathematics for Computer Scientists (1, 2)

²Category Theory, Graph Theory, Combinatorial Structures, Markov Processes, Probability Theory, Selected Topics in Data Structures, Selected Topics in Algebra, Matrix Calculus

2016: **3rd place** in the national round (Slovakia), category A
 Participation at the **International Mathematical Olympiad** (IMO)
 2015: 18–20th place (**bronze medal**) at the Middle European Mathematical Olympiad
 (MEMO)

WORK EXPERIENCE

Mohamed bin Zayed University of Artificial Intelligence Feb 2022 – Apr 2022
 Research assistant in the research group of [Martin Takáč](#).

Nozdormu (crypto trading company) Jun 2020 – Aug 2020
 Software engineering/research internship. My goal was to analyze, model and design
 practical algorithms to optimize resource allocation of the company and implement the
 developed methods under various constraints.

Mathematical Olympiad 2017 – 2019

- marking problems at the Slovak national round of the Mathematical Olympiad (3 times)
- organizing a day at the national selection camp for the International Mathematical Olympiad – creating the problem set and marking the solutions (3 times)
- preparing new format of selection camp for the International Mathematical Olympiad and creating problem sets for the whole camp (team of 4 people)

Trojsten – volunteering 2016 – 2019

- marking solutions of the competitions for talented high school students (approximately 600 solutions, 150 hours of work)
- organizing camps for talented high school students in Mathematics and Computer Science - I organized 15 camps (4 of them as the head organizer)
- delivering 36 lectures (including a half-day lecture at iKS camp)

SKILLS

Programming

- advanced in Python, PyTorch, Julia, Java, C/C++
- experience with Matlab, R, Haskell, Assembler

Organization

- co-organized 20 camps (4 as a head organizer)
- co-organized 14 competitions (3 as a head organizer)

HOBBIES

Sport

- ultimate frisbee
 - representing Slovak national team on the tournaments: European Youth Ultimate Championship and European Youth Ultimate Cup
 - playing for the university team on international tournaments: Middle East and North Africa Club Championships 2019, Middle East and North Africa Club Championships 2021
- rock climbing
- in the past: ice-hockey, floorball, karate

Outdoor puzzle races

- participated on 26 puzzle races (including 3 overnight races in winter)